

KUBOTA Corporation

EXECUTIVE ORDER U-R-025-0396

New Off-Road

Compression-Ignition Engines

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)						
2009	9KBXL02.4HAD	2.434	Diesel	8000						
	FEATURES & EMISSION C		TYPICAL EQUIPMENT APPLICATION							
in	direct Diesel Injection, Tu Smoke Puff Limiter (Som	urbocharger, ne Models)	Tractor, Other Industrial Equi	pment						

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kW-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED	EMISSION			E	XHAUST (g/kW-	OPACITY (%)					
POWER CLASS	STANDARD CATEGORY		HC NOx		NMHC+NOx	co	PM	ACCEL	LUG	PEAK	
37 ≤ kW < 56	Tier 4 Interim	STD	N/A	N/A	4.7	5.0	0.30	20	15	50	
		CERT			3.6	1.0	0.22	6	2	16	

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 24th day December 2008.

Annette Hebert, Chief

Raphael Surroivi

Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: KUBOTA Corporation

Engine category: Nonroad CI

EPA Engine Family: 9KBXL02.4HAD

Mfr Family Name: N/A

Process Code: New Submission

Attachnient

U-R-025-0396

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ission Cont Per SAE J	EM	EM	EM,SPL	EM	EM,SPL	EM	EM,SPL	EM,SPL	E E		war war war and a second secon										
9.Emi e Device		en e		derrickerskerskerskerskerskerskerskers			Ш	H			And the same of th										
8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	19.5	16.3	16.3	16.0	16.0	16.0	16.0	in anticonforcements of the figure of the fi	16.9											the state of the s	
7.Fuel Rate: mm/stroke@peak torque	48.5	45.7	45.7	recent and including control of the	44.8	44.7	4.7	niumbraniusijanius dan 182.5	42.1											A to the second	
6.Torque @ RPM (SEA Gross)	128.8@1800	125.4@1600	125.4@1600	123.0@1600	123.0@1600	122.7@1600	122.7@1600	121.8@1800	120.7@1800							-					
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	29.2	28.3	28.3	nnn bekn den itentratekt bekninnska krimina kantonia i saakembaatania 24,3	24.3	24.4	24.4	26.7	25.3		chimidana in an Andrian de la constitución de la co							01			
. 4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	48.4	46.9	46.9	41.8	4.8	40.5	40.5	44.2	43.5		inan merekan merekan merendirakan madakan dalah merekan dalah merendirak dalah dalah dalah dalah dalah dalah d	0									
	5.7 Ew 61.0@2700	59.0@2700	59.0@2700	51.0@2600	51.0@2600	51.0@2700	51.0@2700	59.0@2700	55.9@2600	٠								High share management and the state of the s			
2.Engine Model	V2403-M-T-ET45-7	V2403-M-T-ET	V2403-M-T-ET	V2403-M-T-ET 38. 51.0@2600	V2403-M-T-ET (20)	V2403-M-T-ET	V2403-M-T-ET	V2403-M-T-ET	V2403-M-T-ET		**************************************	***************************************				•			181 HILLIAM AND RESERVED AND AND AND AND AND AND AND AND AND AN	N THE PROPERTY OF THE PROPERTY	
1.Engine Code	V2403-M-T-ET01	V2403-M-T-ET02	V2403-M-T-ET02b	V2403-M-T-ET03	V2403-M-T-ET03b	V2403-M-T-ET04	V2403-M-T-ET04b	V2403-M-T-ET05	V2403-M-T-ET06		 CHARLE STREET,				7.00				On the company of the second o	AND REPORT OF THE PROPERTY OF	